DRAWING NO. | CONT ON SHEET | SH NO.

UNLESS OTHERWISE SPECIFIED USE THE FOLLOWING:—

APPLIED PRACTICES	SURFACES	TOLERANCES ON MACHINED DIMENSIONS		
		FRACTIONS	DECIMALS	ANGLES
	✓	±	±	±

FOLD

REV NO. | CONT ON SHEET | SH NO.

GENERAL ELECTRIC

TITLE: TIMING OSCILLATORS

CONT ON SHEET | SH NO.

FIRST MADE FOR

50 MC OSCILLATOR

L-1

C-20 20uuf

R-56 22K

C-19 15 uuf

V-12B 12AU7

C22 100 uuf

10 R-64

.001 C-21

150 H R-57

V-14 6AQ5

C-33 .001

1000 R-58

C-31 .001

5600 R-65

.001

L-3

DISTRIBUTED CAPACITY

K3-A

K3-B

TO +KC POSITION CRO SELECTOR SWITCH

K3

1 TBA-11
2 TBA-12
3 TBA-7
4 TBA-10
5 TBA-15
6 TBA-8

V-13 3 4
V-14 3 4
V-12 3 9 4

20 MC OSCILLATOR

L-2

C-34 30 uuf

C-24 .20uuf

R-59 47K

C-35 15uuf

V-12A 12AU7

C-26 100 uuf

C-25 .001

45DK R-60

220 R-61

V-13 6AQ5

C-30 .001

C-32 .001

160K R-66

L-4

DISTRIBUTED CAPACITY

K3-C

K3-D

J-3

C-36 .001

R66 - C36

REVISIONS | PRINTS TO

MADE BY Ben D Bennett

ISSUED

APPROVALS

E-M DEPT.

GEN ENGRG LAB LOCATION

CONT ON SHEET | SH NO.

FF-806-P (2-52) rev.
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FOLD

GENERAL ELECTRIC

DRAWING NO. | CONT ON SHEET | SH NO.

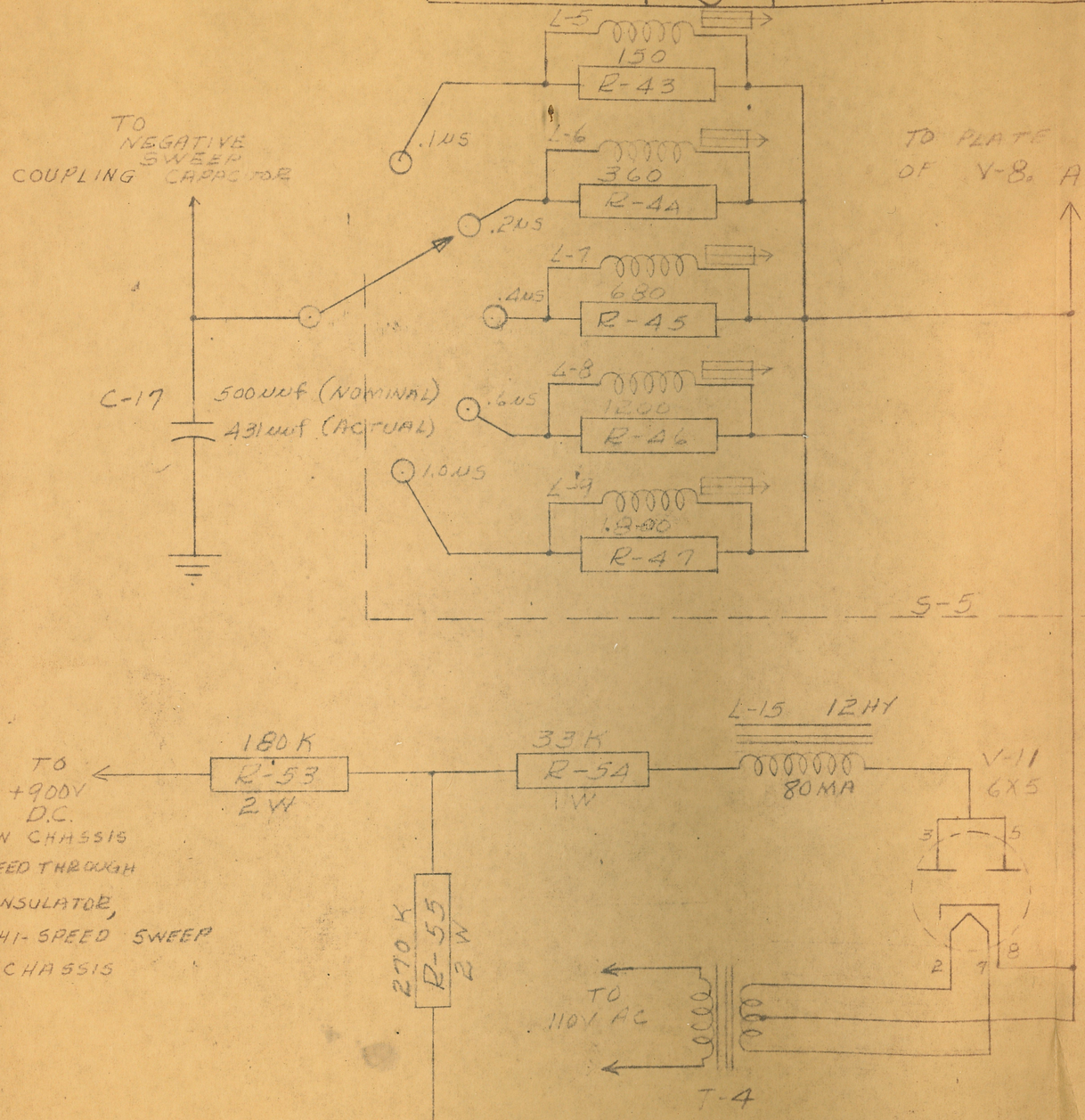
UNLESS OTHERWISE SPECIFIED USE THE FOLLOWING:—

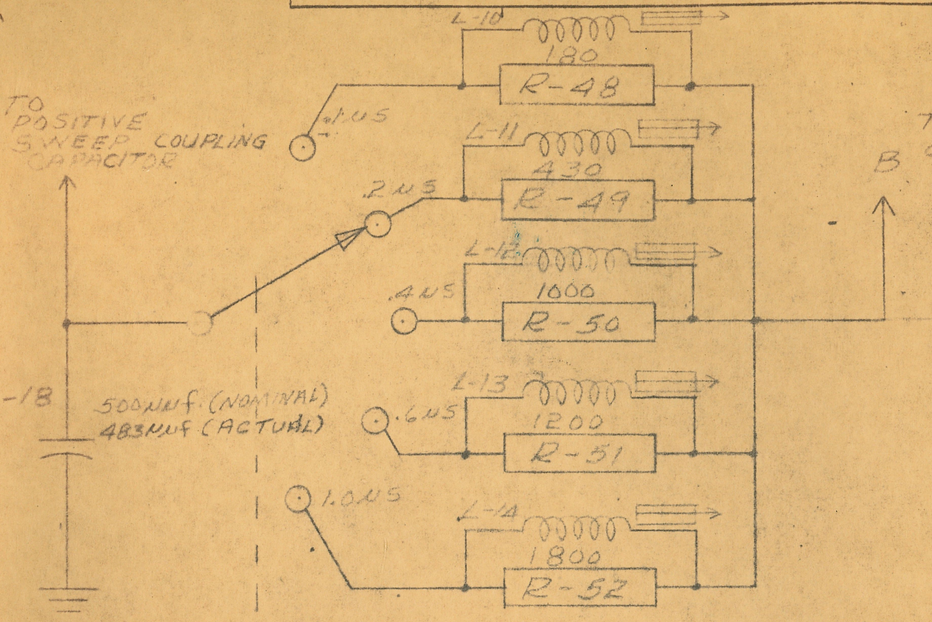
APPLIED PRACTICES	SURFACES	TOLERANCES ON MACHINED DIMENSIONS		
		FRACTIONS ± .	DECIMALS ±	ANGLES ±

REV NO. | CONT ON SHEET | SH NO.

TITLE: SWEEP SPEED SELECTOR

FIRST MADE FOR





INDUCTANCE	NOMINAL VALUE
L-5 , L-10	7 μH
L-6 , L-11	28 μH
L-7 , L-12	112 μH
L-8 , L-13	252 μH
L-9 , L-14	700 μH

REVISIONS | PRINTS TO

MADE BY: Roger A. Brainard CEC

ISSUED:

APPROVALS

E-M DEPT.

GEN. ENGRG LAB. LOCATION

CONT ON SHEET | SH NO.

FF-806-P (2-52) rev.
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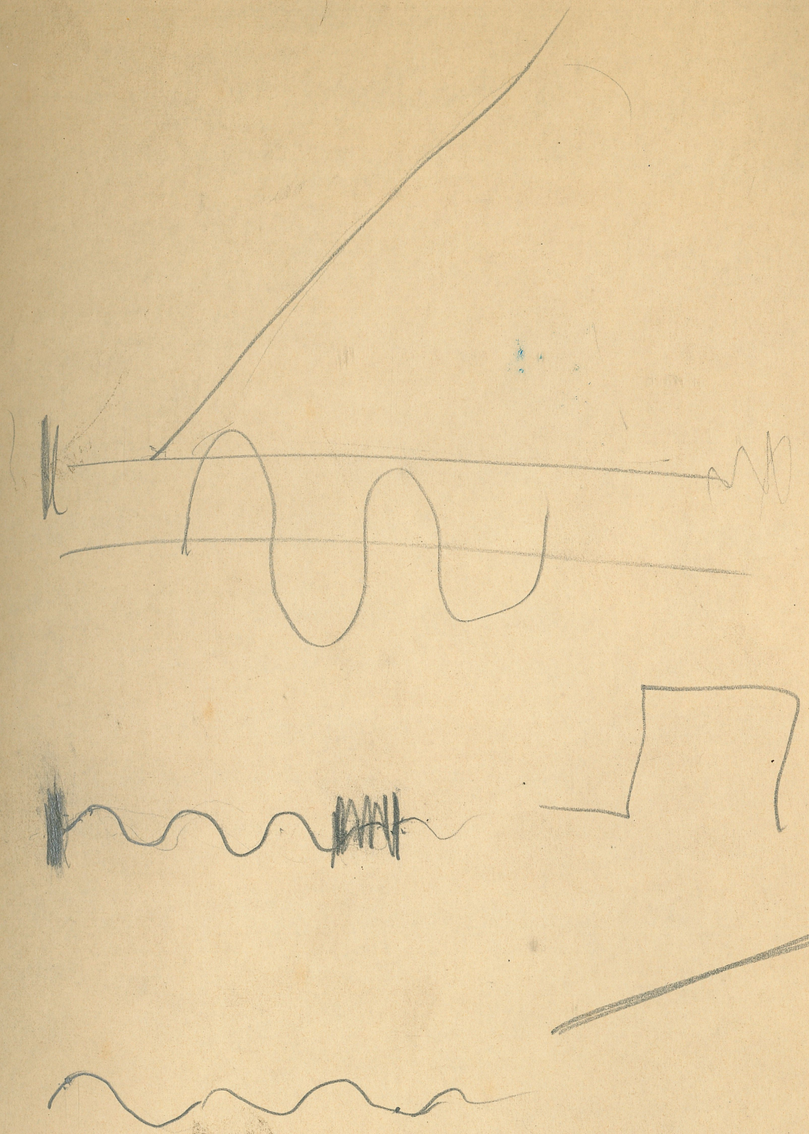
FOLD



2 | 3 | FOLD | 4 | 5

GENERAL ELECTRIC

TITLE

HIGH SPEED CRO SWEEP

FIRST MADE FOR

CONT ON SHEET | SH NO.

TER

AMPLIFIER

PULSE GENERATOR

22K R-5 1W

C-3 .001

.01

V-4B 12AT7

10K R-34 2W

C-14 .001

150K R-35

12K R-36

100K R-37

C-15

75K R-38 1W

110Ω R-39 1W

1.1 μSEC DELAY LINE
G.E. CAT. NO. 5113136 G.

1100 Ω

C-23 .001

V-9 6AH6

C-16

V-10 6BQ6

POWER AMP

2000 R-42 50W

33K R-43 2W

CAP

TO CRT INTENSIFIER GRID COUPLING CAPACITOR

22K R-40

39 R-41 1W

C-28 .001

TBA 7

DRIVER

TBA 9

PULSE STRETCH

AMP & INTEGRATE

DELAY

AMPLIFIER

2.2 MEG R-13 1W

75K R-14 1W

V-3 6AH6

C-5 .001

100K R-10

C-6 .001

C-7 47μμf

2.2 MEG R-9

47 R-16

10K R-17 2W

V-4A 12AT7

C-29 25μμf

C-8 .001

220K R-20

C-27 .001

TBB-4

25K R-19

W

ZERO DELAY ADJUST

TBB-5

TBB-3

25K

22K R-22 1W

100K R-12

C-9 .001

V-5 6AH6

22K R-23 1W

V-6 12AT7

2200 R-25 2W

2200 R-26 2W

C-10 .001

220K R-24

47 R-42 1W

C-11 .001

V-7 5687

100 R-30 1W

120 R-31 1W

2700 R-32 2W

47K R-27

120K R-28

22K R-29

C-12 .001

TBA 9

SWEEP TRIGGER

FOLD

DRAWING NO.

CONT ON SHEET

SH NO.

DRAWING NO.

CONT ON SHEET SH NO.

2 3 4 5

FOLD

A B C

LIMITER

AMPLIFIER PULSE GENERATOR

TITL

FIRS

1.1 μSEC DELAY LINE
G.E. CAT. NO. 5113186 G

1100Ω

TRIGGER FROM SURGE GENERATOR

RG-11/U J-2

C-1 6.8 mmf

1000 R-4 2W

22K R-5 1W

V-1 6AG7

75 R-1

10K R-2

130 R-3

C-2 .01

C-3 .001

V-4B 12AT7

10K R-34 2W

C-14 .001

150K R-35

12K R-36

100K R-37

C-15

C-23 .001

75K R-38 1W

110Ω R-39 1W

V-9 6AH6

V-10 6BQ6

2000 R-40

22K R-40

39 R-41 1W

PHASE INVERTER PULSE STRETCH AMP & INTEGRATE DELAY AMPLIFIER

V-2 12AT7

2000 R-9 2W

C-4 .001

100K R-6

120 R-8

(+) A K-1 B

A K-2 B

V-3 6AH6

2.2 MEG R-13 1W

75K R-14 1W

C-5 .001

100K R-10

C-6 .001

C-7 47 mmf

2.2 MEG R-5

47 R-16

10K R-17 2W

C-29 25 mmf

V-4A 12AT7

C-8 .001

220K R-20

C-21 .001

TBB-4

V-5 6AH6

22K R-23 1W

C-10 .001

220K R-24

V-6 12AT7

2200 R-25 2W

2200 R-26 2W

47 R-42 1W

TIMING TRIGGER FROM LO-SPEED SWEEP CHASSIS

J-1

2000 R-7 2W

12K R-11

100K R-12

C-9 .001

25K R-19

TBB-5

ZERO DELAY ADJUST 25K

TBB-3

22K R-32 1W

SWE

DELAY

AMPLIFIER

V-3 6AH6

2.2 MEG R-1 1W

15K R-14 1W

C-5 .001

C-6 .001

C-7 47 MMF

100K R-10

2.2 MEG R-3

47 R-16

V-4A 12AT7

10K R-17 2W

C-29 25 MMF

C-8 .001

220K R-20

V-5 6AH6

22K R-23 1W

C-21 .001

TBB-4

25K R-19 W

ZERO DELAY ADJUST

25K

TBB-5

TBB-3

22K R-22 1W

36K R-18 1W

100K R-12

C-9 .001

V-6 12AT7

2200 R-25 2W

2200 R-26 2W

C-10 .001

220K R-24

47 R-42 1W

V-7 5687

2700 R-32 2W

100 R-30 1W

100 R-31 1W

C-11 .001

47K R-27

120K R-28

22K R-29

C-12 .001

TBA 9

SWEEP TRIGGER

A

B

TO SPEED SELECTOR SWITCH

V-8 3C45

CAP

T-1

C-13 .01

BLUE

GREEN

RED

BLACK

PULSE TRANS

1 MEG R-73 1W

V-3 V-5 V-1 V-9 V-10 V-2 V-4 V-6 V-7

TBA-10

TBA-15

PILOT LIGHT

6.3V

V-8

6.3V, 10 AMP

T-2

TBA

MOUNTED ON FRONT PANEL

S1 S2 S3

+300 VDC

Y

R

TBC-6 TBC-4 TBC-1 TBC-2 TBC-5

110 VAC

TBB

DELAY ADJUST

CW

R-21 25K W

MOUNTED ON FRONT PANEL

FOLD

CONT ON SHEET

SH NO.

DRAWING NO.

REV NO.

REVISIONS

PRINTS TO

MADE BY

ISSUED

APPROVALS

CEP

E-M DIV

GEN. ENGRG. LAB WORKS

CONT ON SHEET

SH NO.

2 3 FOLD 4 5 6

PHASE INVERTER | PULSE STRETCH | AMP. & INTEGRATE | DELAY | AMPLIFIER

V-2 12AT7
R-7 2000 2W
R-8 120
R-1 2000 2W
R-2 100K
C-4 .001
K-1 A B
K-2 A B
C-5 .001
V-3 6AH6
R-13 2.2 MEG 1W
R-14 75K 1W
R-10 100K
C-6 .001
C-7 47 MMF
R-9 2.2 MEG
R-16 47
V-4A 12AT7
R-17 10K 2W
C-29 .25 MF
V-5 6AH6
R-23 22K 1W
C-8 .001
R-20 220K
C-27 .001
R-19 25K W
R-18 36K 1W
R-22 22K 1W
V-6 12AT7
R-25 2200 2W
R-26 2200 2W
C-10 .001
R-21 220K
C-11 .001
R-27 47K
R-12 47 1W
R-28 120K
C-12
R-24 1 MEG
TIMING TRIGGER FROM LO-SPEED SWEEP CHASSIS
J-1
R-11 12K
R-12 100K
C-9 .001
TBB-4
TBB-5
TBB-3
ZERO DELAY ADJUST 25K
SWEEP
A
B
TO SPEED SELECTOR SWITCH
CAP
V-3 V-5 V-1 V-9 V-10 V-2 V-4 V-6 V-7
TBA-10
TBA-15
TBA-1
TBA-3
TBA-2
TBA-4
TBA-13
TBA-14
TBA-12
K-2 C
K-1
K-2
S-4
T-3
6.3V
V-8
PILOT LIGHT
6.3V, 10 AMP
T-2
TBA
MOUNTED ON FRONT PANEL
S-1
S-2
S-3
+300 VDC
Y
R
150 VDC
110 VAC
TBC-6
TBC-4
TBC-1
TBC-2
TBC-5
TBB
CW
R-21 25K W
DELAY ADJ
MOUNTED ON FRONT PANEL

MADE BY
ISSUED
APPROVALS

FF-809-P (3-50)
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FOLD